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Patrícia Ferreira is an Assistant Professor at Instituto Superior Técnico (IST), University of Lisbon, teaching courses of Transportation and Transportation Infrastructures, since 2001 and being responsible for some rail related courses existing in different MSc. Degrees in the Civil Engineering Department. She has a MSc. in Structural Engineering (Structural Dynamics thesis) and a PhD in Railway Engineering, focusing on dynamic modelling of the train/track system at very high speeds. Since 2002 she has been participating as researcher in several rail related international research projects, and she has worked as a consultant for different railway institutions and administrations. She has been invited to participate in several PhD juris, technical comities and scientific papers revisions, related with transport infrastructures. Also, she has supervised several MSc. Dissertations and she is an author of more than 20 papers on railway engineering, mainly related to railway track design and train-track dynamic modelling. Her research interests' focus mostly on railway infrastructure design (ballasted and slab tracks), degradation prediction and optimization of railway systems (maintenance, LCC).